Purchase Order Receipt Listing

Thursday, July 20, 2017 10:10:03 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO37040 Receipt Dates from 7/19/2017 to 7/19/2017 All Line Item Types All Item ID/GL/WOs All Rec. Employees All Currencies Grouped by Vendor ID

Book Amt	80.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
MRB Qty/ MRB Reject Qty	0	0	0	0	0	0	0	0	0	0	0 0	0 0
Inspected Qty/ Rejected Qty (PO U/M)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cost Per Unit/ Recv Value	\		\		\	, v	\	,	/	\	7	
Recv Qty (PO U/M)	180.0000		48.0000		24.0000 🕶		48.0000		48.0000 6		900009	1,0000
Recv Bate/ Recv Emp	7/19/2017	PLOU01	7/19/2017	PLOU01	7/19/2017	PLOU01	7/19/2017	PLOU01	7/19/2017	PLOU01	7/19/2017 PLOU01	7/19/2017 PLOU01
Required Date Required Qty	7/21/2017	180.0000	7/21/2017	40.0000	7/21/2017	20.0000	7/21/2017	40.0000	7/21/2017	40.0000	7/21/2017	7/21/2017
PO U/M / Stock U/M	DAS 500		5 5	6-89 DAS	9 de la company	9-89	DAS	<b>ဂ</b> ဗ္ဗဓ	DAS	68-8	DAS 9-89	
Reference/ Pr Description/ Sy Cert Std	VU-TWM001 TW MetaiDAS  - M60617670,375W.05.f 5	6061-T6 RD Tube f .375 x.058W m138083	M6061T6T0.500W.05 f	6061-T6 RD Tube f .500 x.058W m138083	M6061T6T0.625W.04 f	6061-T6 RD Tube f .625 x.049W m138083	M6061T6T0.625W.06 f 5	6061-T6 RD Tube f .625 x.065 W m138083	M6061T6T0.625W.12 f 5	6061-T6 RD Tube f 0.625 X.125W m138083	=4M304TR0.750W.049 f 304 RD Tube .750 x f .049W m138083	71401-45 PROCUREMENT QUALITY CLAUSES
Project ID	V		,		•		l		(		(	
Line Nbr/ Insp Req	ndor Nam	No.	2	No	en	No	4	N <sub>O</sub>	5	No	9 N	∞ <sup>0</sup> Z
Purchase Order ID/ Curr Type	endorID\Vendor Name PO37040 1	OSD										

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6.02
2

Required Qty Date/ Recv Emp	_	PO II/M /					
40	>	Stock U/M	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
					Total Received Q	uantity:	409.0000
				Total	Qty to Inspect (Po	O U/M):	0.0000
					Total Reject Q	uantity:	0.0000
					Total Receip	t Value:	\$0.00

Line Nbr/ Insp Req

Purchase Order ID/ Curr Type

\$0.00

Total Balance Due Quantity:





ORDER NO.: 60635888 FROM: CRAN

SOLD TO:

CANADA

CUST NUMBER: 1203820 NET WGT:

DART AEROSPACE LTD

1270 ABERDEEN ST

CN K6A 1K7

58.756 REQ.DATE: 07/21/17 CONFIRMED

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST

HAWKSBURY ON

ONTARIO CANADA

CN K6A 1K7

SALESPERSON:

TERMS: F.O.B.:

CUST ORD NO .:

HAWKESBURY ON

DONNA SMALLEY NET 30 DAYS

SHIPPING POINT

PO37040

SHIP BY: 07/17/17

VIA: COMMON CARRIER

FREIGHT: PREPAID

RELEASE NO.:

RECEIVING PHONE:

0001 41952 D6061-T6 3/8 OD X .058 WA

WIDTH LENGTH 12 FT ML

CLN#

ORD OTY 180.000 FT

LINE ITEM DESCRIPTION

INVOICE QTY

180.000 FT

SHIPPED QTY 180.000 FT

12.204

PCS 15

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: EAR99
PO:49361230 HC:1180968 5 PC: 15 CUSTOMER QTY: 180.000 UOM FT MLT:UNITED STATES MFGCTITED STATES SLB/CL:438268

0002 42276 D6061-T6 1/2 OD X .058 WA

ORD QTY CLN#

48.000 FT

INVOICE OTY 48.000 FT SHIPPED QTY 48.000 FT

PCS

\*\* 1 TEST REPORTS RESIRED \*\*

\*\* 1 CERTS REQUIRED 5 \*

ECCN: EAR99

MLT:UNITED STATES MFG:UNITED STATES

9-89 Export License: NLR Expiration Date: 0/00/00

PO:49365548 HT:F002361250001 PC: 4 CUSTOMER QTY: 48.000 UOM FT

12 FT ML

SLB/CL:222661

0003 42506 D6061-T6 5/8 OD X .049 WA

ORD QTY 24.000 FT INVOICE QTY 24.000 FT

SHIPPED OTY 6 24.000 FT WT 2.494

\*\* 1 TEST REPORTS REQUIREDAS\* \*\* 1 CERTS REQUIRED \*\* 5.

ECCN: EAR99 PO:49363158 AT:F002325380001

Expiration Date: 0/00/00 80001 PC: 2 CUSTOMER QTY: 24.000 UOM FT MLT:UNITED STATES MFG:UNITED STATES SLB/CL:2222297

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE THANK YOU FOR THIS ORDER PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.

http://www.twmetals.com/invoice-terms.html





ORDER NO.: 60635888 FROM: CRAN

CUST NUMBER: 1203820 NET WGT:

CN K6A 1K7

SOLD TO:

SHIP TO:

58.756 REQ.DATE: 07/21/17 CONFIRMED

DART AEROSPACE LTD

DART AEROSPACE LTD 1270 ABERDEEN ST

1270 ABERDEEN ST HAWKESBURY ON

HAWKSBURY ON

CANADA

ONTARIO CANADA

CN K6A 1K7

SALESPERSON:

DONNA SMALLEY

SHIP BY:

07/17/17

TERMS:

NET 30 DAYS

VIA: COMMON CARRIER

F.O.B.:

SHIPPING POINT

FREIGHT:

PREPAID

CUST ORD NO .:

PO37040

RELEASE NO.:

RECEIVING PHONE:

LENGTH

LINE ITEM DESCRIPTION

0004 42558 D6061-T6 5/8 OD X .065 WA

WIDTH

12 FT ML

CLN#

ORD OTY

INVOICE QTY

SHIPPED QTY

48.000 FT

48.000 FT

48.000 FT

6.428

DAS 1 TEST REPORTS REQUIRED \*5

\*\* 1 CERTS REQUIRED \*\* 9-89

Export License: NLR Expiration Date: 0/00/00

PO: 49352984 HT: F002180450002 PC: 4 CUSTOMER QTY: 48.000 UOM FT

MLT: UNITED STATES

ECCN: EAR99

MFG:UNITED STATES

SLB/CL:220820

0005 42588 D6061-T6 5/8 OD X .125 WA-

CLN#

ORD OTY 48,000 FT INVOICE QTY 48.000 FT SHIPPED QTY 48.000 FT

WT 11.082

12 FT ML

PCS

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: EAR99

Export License: NLR PO: 49360917 HT F002299760001

MLT:UNITED STATES MFG:UNITED STATES

Expiration Date: 0/00/00 PC: 4 CUSTOMER QTY: 48.000 UOM FT

SLB/CL: 201973

0006 36860 SMLS CD 304/L A269 3/4 OD X .049 WA

20 ' CL

CLN#

MLT: CHINA

ORD QTY 60.000 FT

INVOICE OTY 60.000 FT SHIPPED OTY 60.000 FT

WT 22.003

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: 2B999.g Export License: NLR

MFG: CHIMB9

PO:49342471 HT:YX1501783 5 PC: 3 CUSTOMER QTY: 60.000 UOM FT

Expiration Date: 0/00/00

SLB/CL:11-63

1

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW. http://www.twmetals.com/invoice-terms.html





ORDER NO.: 60635888 FROM: CRAN PAGE 3

CUST NUMBER: 1203820 NET WGT:

HAWKESBURY ON

SOLD TO:

1270 ABERDEEN ST

DART AEROSPACE LTD

CN K6A 1K7

58.756 REQ.DATE: 07/21/17 CONFIRMED

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST

HAWKSBURY ON

ONTARIO CANADA

CN K6A 1K7

SALESPERSON:

CANADA

DONNA SMALLEY NET 30 DAYS

SHIP BY:

07/17/17 VIA: COMMON CARRIER

TERMS: F.O.B.: SHIPPING POINT

FREIGHT:

PREPAID

CUST ORD NO.: PO37040

RELEASE NO.:

RECEIVING PHONE: WIDTH

LENGTH

LINE ITEM DESCRIPTION

BROKERS KUEHNE AND NAGEL LTD

----- PACK INFO ------

AREA TYPE OF PKG B CARTON

PKGS GRS WEIGHT WIDTH LENGTH HGHT 1.000 109.000

246.0000

B REDDICRATE

1.000

150.0000

2.000 109.000

BY: TB RT 000-

UNLOAD TYPE: NONE SPECIFIED

2017-7-20

DATE SHIPPED

1

DATE FILLED





ORDER NO.: 60635888

FROM: CRAN

PAGE 4

CUST NUMBER: 1203820 NET WGT:

SOLD TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON

CANADA

CN K6A 1K7

SALESPERSON:

TERMS: F.O.B.:

CUST ORD NO .:

VIA:

FREIGHT:

RECEIVING PHONE:

RELEASE NO .:

NET 30 DAYS SHIPPING POINT

COMMON CARRIER

PREPAID

DONNA SMALLEY

PO37040

58.756 REQ.DATE: 07/21/17 CONFIRMED

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKSBURY ON ONTARIO CANADA

CN K6A 1K7

SHIP BY:

07/17/17

27 ENGLEHARD DRIVE

MONROE TWP

NJ 08831

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

#### "CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Authorized Test Report Clerk

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.



#### PRECISION TUBE CO.

287 WISSAHICKON AVE. NORTH WALES PA 19454 Control No: 2839

#### CERTIFIED TEST REPORT

CUSTOMER	PURCHA	SE O	RDER 1	NO.	CUST.	ORD.	NO.		PRECT	STON	TUBE P/N
M 49	361230	LINE	001		4	38268					00580006
	CAI	5 TÜBI ROL SI	EWAY	IL 60	188		SE	TO	235 TUBEV	VAY REAM,	IL 60188
OUANTITY	ORD.	DES	CRIPT	ION				0	TY. SHIPP	ED	DATE SHIPPED
4008	8 FT	TEMPE SPEC LENGT LGTH SHAPE	TOL	4082P ASTM 2 FT +.1250 UND FRAIGH 0 +.00	AMS-W -B-210 1 IN0 F EXACT 0300	12 0000 I LENGT 0030	N			FT	12/21/16
				MEC	HANICA	L PRO	PERTI	ES			
SAMPLE #	TENSILE YIELD					ELO	NGATI NGATI	ON	ROCKWEI HARDNES		AVERAGE GRAIN SIZE (MM.)
1	4	4,103		37,	550		20				
				7	ESTRUC	n Tare	mreme		**	_	TW METALS
Comments: F	ar baa (	COMPLI	ES, DF	ARS BAA	COMPLIE	ES, FAI	R TAA (	COMPL	JIES		DEC-26'18 O
EDDY CURR	ENT: PAS	s			-DESTR			L	5		
ALLOY: 6	061 SI	HEAT	Cu	CHI Mn	TRACE RAW MA	ABILI'	ry #:	1180	968 974 - Kaise	r Alu	minum
/lin	0.40	,	0.15		0.80	0.04			Rem.		
Max OTHER ELEMENT	0.80 S: 0.05 MAX	0.70 EACH / 0	0.40 0.15 MAX	0.15 TOTAL	1.20	0.35	0.25	0.1	5		
At 1											

We hereby certify that the material has been manufactured and tested in accordance with the requirements of the applicable specifications and descriptions set forth on Precision Tube's sales acknowledgement. During the manufacturing, testing and inspection, the product did not come into direct contact with mercury or any of its compounds, nor with any mercury containing device employing a single boundry containment. Test results indicate that the material is compliant with the current revision of the RoHS Directive (2011/65/EU).

Melted and Manufactured in USA QMS Registered to ISO 9001: 2008

Art Onaltis QA Manager 12/21/16

Page: 1

of



http://Onuna Batis or Anyminum.com

KAISER ALUMINUM FABRICATED PROCUCTS, LLC 2425 STEVENS DRIVE RICHLAND. WA 99352

CUSTOMER PO NUMBER.		MER PART NUMBER.	PRODUCT DESCRIPTION.  4PPRO  5.400 LB/PC .500 LB/-0 LB 1.312 OD X .085 WALL ESRT					
PTC7874	SPIRI	T-371850						
KAISER ORDER NUMBER: L	INE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER.			
320897	001	10/28/2016	50751-347	6061	0			
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:			
10769.000 LB	1950:000 PCS	005171			13.984 FT			
PRECISION TUBE C 287 WISSAHICKON N. WALES, PA 19454	AVENUE	27	MUELLER INDUS PRECISION TUBE 8285 TOURNAME STE. 150 MEMPHIS, TN 38	ENT DRIVE				

# **Actual Physical Properties**

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	%Elong in 2	HARDNESS	CONDUCT.	BEND
50751-347	0001	0001	18.7	5.9	27.2	NA N/A	N/A	N/A
50751-347	0001	0002	18.4	5.5	27.8	N/A	N/A	N/A
50751-347	0001	0003	18.3	5.6	27.1	N/A	N/A	N/A
50751-347	0001	0004	18.0	5.5	26.7	N/A	N/A	N/A
50751-347	0001	0005	18.3	5.9	27.2	N/A	N/A	N/A
50751-347	0001	0006	17.7	5.6	27.6	N/A	N/A	N/A
50751-347	0001	0007	18.3	5.9	26.B	N/A	N/A	N/A
50751-347	0001	9008	18.6	5.7	25.7	N/A	N/A	N/A
50751-347	0001	. 0009	18.2	5.5	26.5	N/A	N/A	N/A
50751-347	0001	0010	18.6	5.8	26.0	N/A	N/A	N/A
50751-347	0001	0011	18.5	5.7	, 28.6	N/A	N/A	N/A

# Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot	
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	.15	
Minimum	0.80	0.00	0.15	0.10	0.80	3.04	0.00	0.00	NA	NA	NA	0.00	. 0	
F76091	.58		.22		1.03	.09		.03	.00	.00	.00	.01	.02	
F76216	. 60	. 30	.21		1.01	.09		.03	.00	.00	.00	.01	.02	

# Applicable Requirements:

ASTM-B241-16 NON-STENCILED ASTM-B221-14 ASTM-B345-11 AMS-QQ-A-200/3A TYPE I UNS#A96061 Also conforms to EN 10204 3.1

#### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

TW METALS

DEC-28 18 0

R

ACCEPTED BY

Plant Serial: 00015006

Kaiser Order Number: 320897 Line Item: 001

Page 1 of 2



http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PROCUCTS, LLC 2425 STEVENS DRIVE RICHLAND, WA 99352

#### CERTIFICATION

Raiser Aluminum Fabricated Products. LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

JOSEPH AMES, QUALITY MANAGER



Plant Serial: 00015006

Kaiser Order Number: 320897

Line Item: 001



http://Online.KaiserAluminum.com

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD 
CHANDLER, AZ 85226

CUSTOMER PO NUM	BER:	CUSTOMER PART NUMBER:	PRODUCT DESCRIPTIO	N:	
M49365548-1		42276	Drawn Seamless	Tube/Pipe	
KAISER ORDER NUM	BER: LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:
222661	001	03/20/2017	F00236125	6061	те
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:
443.000 LB	388.000 P	PCS 224652			12,000 FT
SHIP TO:			SOLD TO:		
TW METALS IN 235 WEST TUB CAROL STREAL	<b>EWAY DRIVE</b>		TW METALS INC 760 CONSTITUTI SUITE 204 EXTON, PA 1934	ON DRIVE	

# **Actual Physical Properties**

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON% LACS	BEND
F00236125	0001	1	46.7	41.1	17.0	N/A	N/A	N/A
F00236125	0002	1	46.2	40.9	18.0	N/A	N/A	N/A

# Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D76510	. 62	.23	.23	.05	.99	.07	.07	.02	.00	.00	.00	.01	.02

Applicable Requirements:

Description OD: 0.5000"; Wall: 0.0580"; Round AMS4082P AMS-WW-T-700/6C ASTM B210-12 WW-T-700/6F WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED. This Product Complies to FAR BAA, DFARS BAA, FAR TAA COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.



### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).

Plant Serial: 00024461

Kaiser Order Number: 222661

Line Item: 001



http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 6573 W. WILLIS ROAD CHANDLER, AZ 85226

#### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms &conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager





Plant Serial: 00024461 Kaiser Order Number: 222661 Line Item: 001





http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 6573 W. WILLIS ROAD CHANDLER, AZ 85226

		PRODUCT DESCRIPTION	N:	:
42506		Drawn Seamless	Tube/Plpe	
ER: LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:
001	01/31/2017	F00232538	6061	Т6
QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:
409.000 PCS	224220			12.000 FT
		SOLD TO:		
WAY DRIVE I, IL 60188 USA		SUITE 204	ON DRIVE	
	42506  R: LINE ITEM:  001  QUANTITY:  409.000 PCS	42506  ER: LINE ITEM: SHIP DATE:  001 01/31/2017  QUANTITY: B/L NUMBER:  409.000 PCS 224220  WAY DRIVE	42506   Drawn Seamless	42506   Drawn Seamless Tube/Pipe

### **Actual Physical Properties**

DAS	REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG	HARDNESS	CON% IACS	BEND
6	F00232538	0001	1	46.2	39.8	17.0	N/A	N/A	N/A
0.89	F00232538 F00232538	0002	1	47.7	41.5	17.0	N/A	N/A	N/A

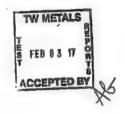
# Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D83226	. 60	.27	25	.05	1.00	.08	.05	.03	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.6250"; Wall: 0.0490"; Round @ AMS4082P AMS-WW-T-700/6C (ASTM B210-12) WW-T-700/6F WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS-4082P, WAS NOT OILED. This Product Complies to FAR BAA, DFARS BAA, FAR TAA

COMPLIES TO DIN EN 10204 JAN 2005 No Weld Repair. Mercury Free.



#### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).

Plant Serial: 00024039

Kaiser Order Number: 222297

Line Item: 001







http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 6573 W. WILLIS ROAD CHANDLER, AZ 85226

#### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms acconditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager

Plant Serial: 00024039 Kaiser Order Number: 222297

Line Item: 001





FABRICATED PRODUCTS

#### CERTIFIED TEST REPORT

#### http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 6573 W. WILLIS ROAD

CHANDLER, AZ 85226



CUSTOMER PO NUMBE	R:	CUSTOMER PART NUMBE	PRODUCT DESCRIP	PRODUCT DESCRIPTION:  Drawn Seamless Tube/Pipe					
M49352984-1		42558	Drawn Seamles						
KAISER ORDER NUMBE	R: LINE ITEM:	SHIP DATE:	KAISER LOT NUMBE	R: ALLOY:	TEMPER:				
220820	001	07/05/201	6 F00218045	6061	T6				
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER	DIAM/DAF/THKNS:	WIDTH:	LENGTH:				
558.000 LB	: 346.000 F	CS 222226			12.000 FT				
SHIP TO:			SOLD TO:						
TW METALS INC 235 WEST TUBE CAROL STREAM	WAY DRIVE		760 CONSTITU SUITE 204	TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA					

DAS

# **Actual Physical Properties**

REFERENCE 9	#HZA	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG*	HARDNESS	CON% IACS	BEND
100218045	0001	1	48.7	43.2	17.0	N/A	N/A	N/A
F00218045	0002	1	46.9	40.8	18.0	N/A	N/A	N/A

## Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D76011	. 60	.24	.23	.03	. 97	.07	.05	.02	.00	.00	.00	.01	.03

Applicable Requirements:

Description: ODt 0.6250"; Wall: 0.0650"; Round 0

AMS 4082P AMS WW-T-700/6C ASTA B210-12 WW-T-700/6F

WE TAKE EXCEPTION TO PARA. 5.2.1 Per AMS-082P, WAS NOT OILED.

This Product Complies to FAR BAA, DFARS BAA, FAR TAA

COMPLIES TO DIN EN 10204 JAN 2005

No Weld Repair. Mercury Free.

### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).

Plant Serial: 00022478

Kaiser Order Number: 220820 Line Item: 001

mB-



http://Online,KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 6573 W. WILLIS ROAD CHANDLER, AZ 85226

#### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager



Plant Serial: 00022478
Kaiser Order Number: 220820
Line Item: 001

Page 2 of 2 Line







http://Online.KaiserAluminum.com

KAISER ALUMINUM **FABRICATED PRODUCTS, LLC** 6573 W. WILLIS ROAD CHANDLER, AZ 85226

CUSTOMER PO NUMB	ER:	CUSTOMER PART NUMBER:	PRODUCT DESCRIPTION	N:					
M49360917-1		42588	Drawn Seamless	Drawn Seamless Tube/Pipe					
KAISER ORDER NUMBER: LINE ITEM:		SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:				
221973	001	12/05/2016	F00229976	6061	Т6				
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAWDAF/THKNS:	WIDTH:	LENGTH:				
239.000 LB	86.000 P	CS 223667			12.000 FT				
SHIP TO:			SOLD TO:						
TW METALS INC 27 ENGLEHARD EXIT 8A OFF NJ MONROE TWP,	DRIVE TPK	SA	TW METALS INC 760 CONSTITUTI SUITE 204 EXTON, PA 1934	ON DRIVE	-				

# **Actual Physical Properties**

REFERENCE DASH	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON% IACS	BEND
F00229976A\$ 0001	. 1	46.9	40.5	17.5	N/A	N/A	N/A
g-89							

# Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D76008	.59	.26	.22	.04	1.00	.10	.05	.02	.00	.00	.00	.01	.02

Applicable Requirements:

Description: DD: 0.6250"; Wall: 0.1250"; Round @ AMS-WW-T-700/6C (ASTM B210-12) WW-T-700/6F

WE TAKE EXCEPTION TO PARA. 5.2.1 Por AMS-4082P, WAS NOT OILED.

This Product Complies to FAR BAA, DFARS BAA, FAR TAA

COMPLIES TO DIN EN 10204 JAN 2005

No Weld Repair. Mercury Free.

### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA (DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5 TRADE AGREEMENTS).



Plant Serial: 00023570 Kaiser Order Number: 221973

Line Item: 001





ASCOTION

## **CERTIFIED TEST REPORT**

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 6573 W. WILLIS ROAD CHANDLER, AZ 85226

#### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms &conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager

Plant Serial: 00023570 Kaiser Order Number: 221973

Line Item: 001

Page 2 of 2

#### MILL TEST REPORT

Purchaser.; TW MET	ALS-Cranbu	fy			Certificate	No.: 16-1-13					
Contract No.: TWM I	P.O.No.: M49	342471			Date of Issue.: 2016.1.5						
Commodity: Stainless	Steel Seaml	ess Tubes	Specifica	:anons:	:: ASTM A213-15c/ASME SA213-15/ASTM A269-15a EAW						
Process: Cold Drawn				-		ondition: OD				_	
Steel Grade	Heat	Number 5	Lot		Dimen		Quantity				
Steel Of Age			Number		Dimens	ions		Pieces		Feet	
TP304/TP304L	YXI	501-783	11-63	1-63 3/4" x 0.049" x 20'				250	5	,000	
		Che	emical Co	mposit	ion by Weig	ht (%)					
Element	С	Mn	P	S	Si	Cr		Ni	Mo	Co	
Requirements	≤0.035	€2.00	≤0.045	≤0.0	30 ≤1.00	18.00-20.00	8.	00-12.00	-		
Ladie Analysis	0.012	0.68	0.031	0.00	1 0.37	18.35		8.05	-	-	
Product Analysis	0.019	0.70	0.033	0.00	2 0.39	18.37	,	8.31	-	-	
			Mech	anical l	Properties		-				
Test Item	Elong	atlon (% in 2"	')	Tensile Strength (PS					Strength (I	PSI)	
Requirements		≥35		≥75,000			≥30,000				
Test Results		65/66			89,000/90,	000		34,0	000/35,000	)	
Test Item		on of Area (%)	Hard	ness	Cold Bend Test	Flaring Test	F	attening Test	Flange Test	P.M.I. Test	
Requirements		-	HRB*	<b>≤80</b>	-	22%		e=0.09	-	-	
Test Results		-	75/7	7	-	Passed	,	Passed	-	OK	
Test Item	Eddy Cu	rrent Test	Air Unde Pressure		Ultrasonic Test	Intergrant Corrosion		Macro	scopic In	spection	
Requirements	ASTM	1 E 426	-		-	ASTM A26	52 E	End Cut	Арре	arance	
Test Results	Pas	ssed	-		-	OK		OK	(	OK	

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1526002

#### Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

CANNOT CERTIFY COMPLIANCE FAR BAA / DFARS BAA / FAR TAA



James Shi / Manager

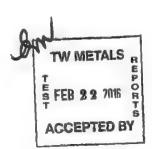
By:

We hereby certify that this report is true and correct.

Quality Control Department

# Shanghai Pufa Stainless Steel Pipe Factory

No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: DATE:	GITI UL 1	6tc	2.375 W.	B3	PO / BATCH N	0 PO3700	10/19
MATERIAL CERT REC'D: QUANTITY RECEIVED: 180 QUANTITY INSPECTED: QUANTITY REJECTED:	9 6	yes Q	5	THICK	NESS ORDERE NESS RECEIVE SIZE ORDERE SIZE RECEIVE	D:	058 0560 A
DESCRIPTION	(0	ICR heck '/N)			COMMENTS		
SURFACE DAMAGE		TAP					_
CORRECT FINISH	0						
CORROSION	Y	N					
CORRECT GRAIN DIRECTION	N		-				
ORRECT MATERIAL PER M-DRAWING	8		ASIM	B 210			
CORRECT THICKNESS	T T		7311	D 910			
PHOTO REQUIRED	Y	(N)					
CORRECT REF # TO LINK CERT	(Y)	N	111	15.000	· B		
RRECT MATERIAL IDENTFICATION	100	N		18096	8		
CORRECT M# ON THE MATERIAL	Ø	N					
DOES THIS MATERIAL REQUIRE	-	- '					
ENGINEERING SIGN OFF	Y	N					
DOES THIS REQUIRE AN		-					
EXTRUSION REPORT	Y						
CUT SAMPLE PIECE	OF	MAT	FRIAL AND	PREFORMA	HAPPNIECC	PHECK	
	F	RECO	RD RESULT	S RELOW	LIVUDIAE99 (	DIEUN.	
TYPE OF MATERIAL SIZE OF TEST SAMPLE	HRC	HRB	DUR A	DUR D			
HARDNESS / DUROMETER REA	<u>.</u>						
KEA			/a = =4= =1 i== 1t == 0	11. 0.00			

testers located in the Quality Office

QC 18 INSPECTION			ENGINEERING SIGNOFF (if required)
INSPECTED BY:	1111 0 0 0047	5 9=89	SIGNED OFF BY:
DATE:	JUL 2 0 2017		DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

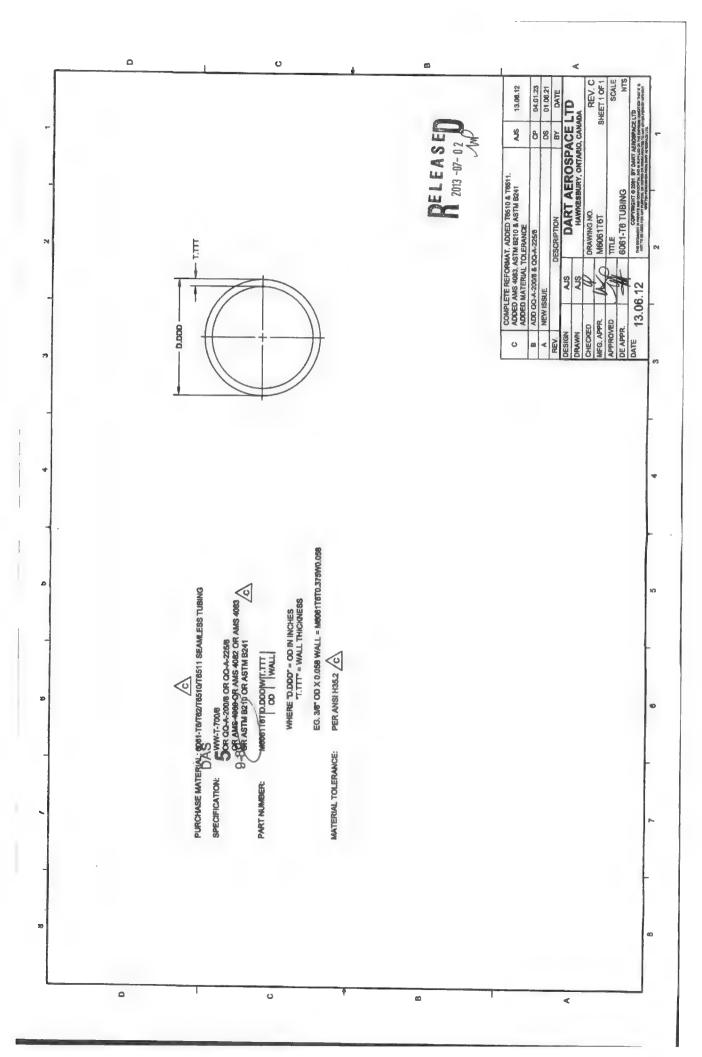
۵ O œ 13,06,12 SHEET 1 OF 1 04.01.23 01.06.21 DART AEROSPACE LTD HAWMESBURY, ONTARIO, CANADA RELEASED 2013 -07-02 886 Age COMPLETE REFORMAT ADDED T8510 & T8511.
ADDED AMS 4083, ASTA 8210 & ASTA 8241
ADDED MATERIAL TOLERANCE
ADD OG-A-2008 & OG-A-2256 6061-T6 TUBING DRAWING NO. M6061T6T DESCRIPTION TITI-\$ 13.06.12 MFG. APPR.
APPROVED
DE APPR.
DATE 12 - DODO -CHECKED DRAWN DESIGN O REV. EG. 3/8" OD X 0.058 WALL = M6061T6T0.375W0.058 WW-T-700/9
OR GC-A-200/9 OR GC-A-225/9
OR AMS 4090 OR AMS 4092 OR AMS 4093
OR ASTM B210 OR ASTM B241 PURCHASE MATERIAL: 8081-T6/T62/T6510/T6511 SEAMLESS TUBING WHERE 'D.DDD" = OD IN INCHES T.TTT = WALL THICKNESS MODEST TO TO DOD WALL PER ANSI H35.2 C MATERIAL TOLERANCE: SPECIFICATION: PART NUMBER 89 ပ

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MCC DATE:	GI1 JL Z	16tc	3500WB	58	P(	O/BATCH N	10. 203	37040/M38
MATERIAL CERT REC'D:  QUANTITY RECEIVED: 48 1  QUANTITY INSPECTED: 48 1  QUANTITY REJECTED:	1	ye	3	TH SH	ICKNES EET SIZ	SS ORDERI SS RECEIVE ZE ORDERE ZE RECEIVE	D:	W.058 W.058
DESCRIPTION	(C	ICR heck '/N)			CC	OMMENTS		
SURFACE DAMAGE	Y	(A)						
CORRECT FINISH	K							
CORROSION	Y	B						
CORRECT GRAIN DIRECTION	8	N						
CORRECT MATERIAL PER M-DRAWING	(1)		10-1-	737				
CORRECT THICKNESS	Ø	N	AStm	1291	0			
PHOTO REQUIRED	Y	B						
CORRECT REF # TO LINK CERT	(8)	1	AU N	1				
CORRECT MATERIAL IDENTICATION	(8)		# 11	FCO?	30	125		
CORRECT M# ON THE MATERIAL	-	N						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	0	N						
DOES THIS REQUIRE AN	Υ	(M)						
EXTRUSION REPORT	Υ	0						
CUT SAMPLE PIECE	OF R	MATE	ERIAL AND I	PREFORM	1 A HA	RDNESS C	CHECK.	
		T	HRC			DUDA	5115	
TYPE OF MATERIAL			11110	HRB		DUR A	DUR	D
SIZE OF TEST SAMPLE	-							
HARDNESS / DUROMETER REAL	DING	; <b>-</b>			-			
			cated in the Q	uality Office				
		1970 10	vared in the Q	uailly Office				

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: JUL 2 0 2017	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL CERT REC'D:  QUANTITY RECEIVED: 24  QUANTITY INSPECTED: 24  QUANTITY REJECTED:	8	30	5	THICKI SHEET	NESS ORDERE NESS RECEIVE SIZE ORDERE SIZE RECEIVE	D: W'(	049
DESCRIPTION	NC (Che	ck			COMMENTS		
SURFACE DAMAGE		<b>1</b> 3					
CORRECT FINISH	TYY	N					
CORROSION		(D)					
CORRECT GRAIN DIRECTION		N					
CORRECT MATERIAL PER M-DRAWING	-	N	AC+0 75	10			
CORRECT THICKNESS	-	N	NO 109	1.0			
PHOTO REQUIRED		P					
CORRECT REF # TO LINK CERT	231	-	1/646				
CORRECT MATERIAL IDENTFICATION	7	N	HI FF FOC	293	1538		
CORRECT M# ON THE MATERIAL	7	N					
DOES THIS MATERIAL REQUIRE		N					
ENGINEERING SIGN OFF	V 1/2						
DOES THIS REQUIRE AN	Y (1	3					
EXTRUSION REPORT	YI	16					
CUT SAMPLE PIECE  TYPE OF MATERIAL SIZE OF TEST SAMPLE	OF M RE	ATI	RD RESULTS BEL	ORM A OW RB	HARDNESS C	DUR D	
		T	LIDO		DUR A	DUR D	

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY:

DATE:

SIGNED OFF BY:

DATE:

DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

۵ DESCRIPTION

S

DART AEROSPACE LTD

HAWNESBURY, ONTARIO, CANADA

DRAWING NO.

Three O œ 13.06.12 TITLE
6081-TG TUBING
COPYRIGHT (SOM) W DART AUCOPACE LTD
PRESCRIPTION OF COMPANY AUCOPACE LTD
PRESCRIPTION OF COMPANY OF RELEASED 2013 -07-02 ABS COMPLETE REFORMAT ADDED T8510 & T9511.
ADDED AMS 4083, ASTM B240 & ADDED MATERIAL TOLERANCE
ADD GO-A-2008 & GQ-A-2258 TIT-S S 13.06.12 NEW ISSUE APPROVED DE APPR. - DODD -DESIGN DRAWN CHECKED MFG. APPR. REV. DATE o EG. 3/8" OD X 0.058 WALL = M8061T6T0.375W0.058 WW-T-7006
OR CO-A-2008 OR CO-A-2568
OR AMS 4080 OR AMS 4083
OR ASTM B210 OR ASTM B241 PURCHASE MATERIAL: 6061-Terrestrestores11 SEAM ESS TUBING SPECIFICATEN: WWW-1-7006 OR OG-4-2568 OR OG-4-2568 WHERE "D.DDD" = OD IN INCHES "T.TT" = WALL THICKNESS MEGETTET D. DODDINT. TTT PER ANSI H35.2 C MATERIAL TOLERANCE: 58-8 PART NUMBER: ٥ ပ

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MGO	617670 2017	;6)5W.0	65	18045		
MATERIAL CERT REC'D:  QUANTITY RECEIVED: 481  QUANTITY INSPECTED: 487  QUANTITY REJECTED: 8	ye	5	THICK	NESS RECEIVE SIZE ORDERE	D: W.	065 065 A
DESCRIPTION	NCR (Check Y/N)			COMMENTS		
SURFACE DAMAGE	YIN					
CORRECT FINISH	YN					
CORROSION	YN					
CORRECT GRAIN DIRECTION	N					
ORRECT MATERIAL PER M-DRAWING	W N	ASTM	Balo			
CORRECT THICKNESS	(Y) N		2010			
PHOTO REQUIRED	YOU					
CORRECT REF # TO LINK CERT	(F) N	H+ 16	Cm718	OUE		
RRECT MATERIAL IDENTFICATION	CB N	17	rac a 1 0	0 13		
ORRECT M# ON THE MATERIAL	W N					
OOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)					
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (3)					
CUT SAMPLE PIECE	OF MAT	FRIAL AND	PREFORMA	HARDNESS	HECK	
	RECO	RD RESULT	S RELOW	HAINDINESS (	PHECK.	
	1.230	HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL			TIND	DONA	DOND	
SIZE OF TEST SAMPLE						
ARDNESS / DUROMETER REA	DING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
DAS	
INSPECTED BY: 5	SIGNED OFF BY:
DATE: 9-89 JUL 2 0 2017	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

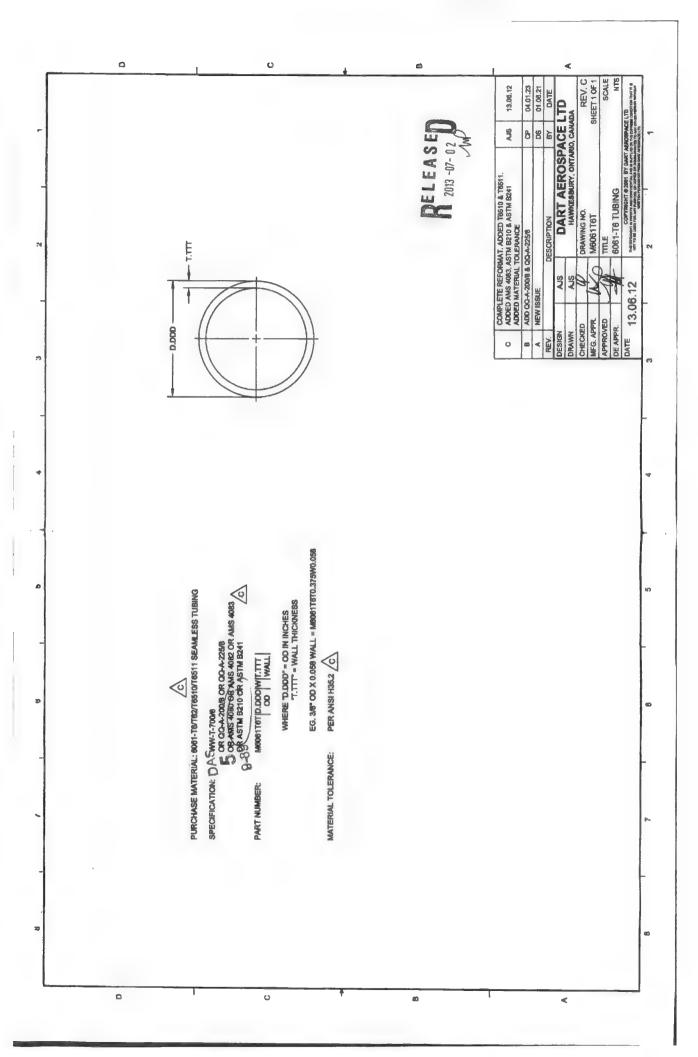
۵ O 6 REV. C SHEET 1 OF 1 13,06,12 04.01.23 DART AEROSPACE LTD
HAWRESBURY, ONTARIO, CAMADA
WING NO RELEASED 2013 -07-02 886 Are COMPLETE REFORMAT. ADDED 78510 & 18511.
ADDED AMS 4083, ASTM B210 & ASTM B241
ADDED MATERIAL TOLERANCE 6061-T6 TUBING DRAWING NO. DESCRIPTION ADD QQ-A-200/8 & QQ-A-225/8 TITT -13.06.12 MFG. APPR.
APPROVED
DE APPR.
DATE 42/ - DODO -DESIGN DRAWN CHECICED EG. 3/8" OD X 0.058 WALL = M8061T6T0.375W0.058 WW-T-700/6
OR CO-A-200/6 OR OEW-226/8
OR ANN 4068-OR ANN 4068 A
OR ASTM B210 OR OF SET B241 PURCHASE MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING WHERE "D.DOD" = OD IN INCHES "T.TT" = WALL THICKNESS DAS MEDETTET D. DDD WIT. TTT PER ANSI H36.2 🚫 MATERIAL TOLERANCE: SPECIFICATION: PART NUMBER: ٥ O

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MGG.	JL 2	10 21	PO / BATCH NO .: po37649/113808						
MATERIAL CERT REC'D:  QUANTITY RECEIVED: 48'  QUANTITY INSPECTED: 48'  QUANTITY REJECTED:					THICKNESS ORDERED: W.135 THICKNESS RECEIVED: W.135 SHEET SIZE ORDERED: SHEET SIZE RECEIVED:				
DESCRIPTION	(C	ICR heck '/N)			COMMENTS				
SURFACE DAMAGE	_		-						
CORRECT FINISH		N		<del></del>					
CORROSION	Y	(3)							
CORRECT GRAIN DIRECTION	(V)	N							
ORRECT MATERIAL PER M-DRAWING	0		15tm F	27/0					
CORRECT THICKNESS	W)	N	73111	2910					
PHOTO REQUIRED	Y	N							
CORRECT REF # TO LINK CERT	B	N	HX IF G	022 90	376				
RRECT MATERIAL IDENTFICATION		N	11-7- 4-7-1 GC	247	776				
CORRECT M# ON THE MATERIAL	Q4	N							
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	R							
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(3)							
CUT SAMPLE PIECE	OF	MAT	ERIAL AND PRE	FORM A	HARDNESS C	HECK.			
		T	RD RESULTS B						
TYPE OF MATERIAL			HRC	HRB	DUR A	DUR D			
SIZE OF TEST SAMPLE		-							
HARDNESS / DUROMETER REAL	DINK								
TANDINESS / DURUINE LER REAL			ocated in the Qualit	v Office					

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	5	SIGNED OFF BY:
DATE:	111 2 0 2017	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



# MATERIAL RECEIPT INSPECTION FORM

DATE:					10:8073704	
MATERIAL CERT REC'D:	U	5	THICK	(NESS ORDERE	ED:	
QUANTITY RECEIVED				NESS RECEIVE		
QUANTITY INSPECTED: 60				SIZE ORDERE		
QUANTITY REJECTED:	0	3		SIZE RECEIVE		
DESCRIPTION	NCF (Chec			COMMENTS		
01105	Y/N,	)		COMMENTS		
SURFACE DAMAGE		N BU1	Found	accepto	able. M	
CORRECT FINISH		N			. 10	
CORROSION CORRECT GRAIN DIRECTION	4.07	W				
PRECIMATERIAL DEPARTMENT		N				
CORRECT THICKNESS		N AS+m	14213			
PHOTO REQUIRED		V				
CORRECT REF # TO LINK CERT	Y					
RRECT MATERIAL IDENTFICATION	OPI	VIHT TE	YX 1501	783		
ORRECT M# ON THE MATERIAL		1				
	(2) V	V .				
OES THIS MATERIAL REQUIRE						
ENGINEERING SIGN OFF	Y	<b>9</b> 2				
DOES THIS REQUIRE AN EXTRUSION REPORT	10	<i>y</i> /				
LATRUSION REPURT	YIN	")]				
CUT SAMPLE DIFFOR	OF	ATEDIAL	<b></b>			
CUT SAMPLE PIECE	OF IVIA	ATERIAL AND	PREFORM A	HARDNESS (	CHECK.	
	KEC	CORD RESUL				
TYPE OF MATERIAL		HRC	HRB	DUR A	DUR D	
SIZE OF TEST SAMPLE		-				
ARDNESS / DUROMETER REA	DINO					
MONE OF POROINE LEK KEA	DING					

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: 9 89 JUL 2 0 2017	SIGNED OFF BY:
DATE:	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

PELEASE SAKAS AUD

SHEET 1 OF 1 REV. B 08 10 20 01 06 08 DATE DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M304TR Q O SO 304/316 ROUND TUBING REFORMAT DWG, ADD SPECS (ZN D8-1). REF PAR 08-020A 08.10.20 NEW ISSUE MFG. APPR.
APPROVED
DE APPR.
DATE
OR CHECKED DESIGN DRAWN REV

PURCHASE MATERIALS: AISL SOLD SEAMLESS ROUND TUBING
SPECIFICATION: A STANDALL SATINDERS SATIST OR ASTM A269
9.89 WALL THICKNESS TOLERANCE PER ASTM A269 AS FOLLOWS:
PERMISSABLE

8

SPECIFICATION CONTROL DRAWING

۵

 OD (IN)
 PERMISSABLE
 PERMISSABLE

 UP TO ½
 0D TOL. (IN)
 WALL TOL.

 ½ TO 1½, EXCL.
 ±0.005
 ±15%

 ½ TO 3½, EXCL.
 ±0.010
 ±10%

 3½ TO 5½, EXCL.
 ±0.010
 ±10%

 5½ TO 8, EXCL.
 ±0.015
 ±10%

 5½ TO 8, EXCL.
 ±0.030
 ±10%

PART NUMBER:

M304TR D.DDD W.TTT

WHERE "D.DDD" = OUTSIDE DIAMETER IN INCHES AND ". TTT" = WALL THICKNESS IN INCHES

O

EG. 0.375" OD X 0.065" WALL TUBING = M304TR0.375W.065



Fax: 613 632 1053

#### PURCHASE ORDER

#### Purchase Order ID PO37040

Purchase Order Date 7/13/2017 PO Print Date 7/14/2017

Page Number 1 of 4

Order From:

TW METALS PO BOX 933014 ALTANTA, GA 31193-3014 VU-TWM001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA



**Contact Name** 

Vendor Phone

Ship To Contact

Ship To Phone

585 768 5600

Buyer

Chantal Lavoie

**Customer POID** Customer Tax#

10127-2607

Terms

Net 30

Currency

USD

Ship Via: Ship Acet: YRC COLLECT

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments	Description/ Mfg ID	Req Date/ CD Taxable Promise Date	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
	Delivery Comments	/	/	/		/
1	M6061T6T0.375W.058	6061-T6 RD Tube .375 x.058W	7/21/2017	180.00	\$2.15	\$387.00
			Yes	f		
			7/21/2017			
		6510/T6511 SEAMLESS TUBI	NG	16x.		

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/6 OR OO-A-200/8 OR OO-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241

\$387.00

M6061T6T0.500W.058

6061-T6 RD Tube .500

7/21/2017

\$1.75

\$70.00

x.058W

Yes

7/21/2017

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241

16cm 48 pt.

Line Total:

Line Total:

\$70.00

Note:



Fax: 613 632 1053

#### PURCHASE ORDER

Purchase Order ID PO37040

Purchase Order Date 7/13/2017 PO Print Date 7/14/2017

Page Number 2 of 4

Order From:

TW METALS PO BOX 933014 ALTANTA, GA 31193-3014 US

VU-TWM001

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

585 768 5600

Ship To Contact

Ship To Phone

Ship Via: Ship Acct: YRC COLLECT

3 M6061T6T0.625W.049 6061-T6 RD Tube .625 x.049W

7/21/2017

Yes

7/21/2017

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241

Buyer

Terms

Chantal Lavoie

**Customer POID** 

Customer Tax# 10127-2607 Net 30

USD

Currency **FOB** 

FCA - (Free Carrier)

20.00

\$3.50

\$70.00

recu del

2x

M6061T6T0.625W.065

6061-T6 RD Tube .625

x.065W

7/21/2017

Yes

40.00

\$3.15

\$126.00

\$70.00

7/21/2017

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241

51.20

Line Total:

Line Total:

\$126.00

Note:



Fax: 613 632 1053

#### PURCHASE ORDER

#### Purchase Order ID PO37040

Purchase Order Date 7/13/2017 PO Print Date 7/14/2017

Page Number 3 of 4

Order From :

TW METALS PO BOX 933014

ALTANTA, GA 31193-3014

US

VU-TWM001

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

**CANADA** 

**Contact Name** 

Vendor Phone

585 768 5600

Ship To Contact

Ship To Phone

Ship Via: Ship Acet:

YRC COLLECT

M6061T6T0.625W.125

6061-T6 RD Tube 0.625 X.125W

7/21/2017

Buyer

Terms

**FOB** 

Currency

**Customer POID** Customer Tax#

40.00

\$5.15

\$206.00

Yes 7/21/2017

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241

Line Total:

Chantal Lavoie

FCA - (Free Carrier)

10127-2607 Net 30

USD

\$206.00

M304TR0.750W.049

304 RD Tube .750 x .049W

7/21/2017 Yes

7/21/2017

60.00

\$2.10

\$126.00

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING

AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

\$126.00

D6210P

7/21/2017

40.00

\$11.50

\$460.00

304 Tube, Seamless 1/8 HARD

7/21/2017

Yes

Each

AS PER DWG D6210 REV. A3

MATERIAL 304 ROUND TUBING SEAMLESS, 1/8 HARD AS PER AMS 5566 OR AMS T-6845 OR MIL-T-6845

Note:



Fax: 613 632 1053

#### PURCHASE ORDER

#### Purchase Order ID PO37040

Purchase Order Date 7/13/2017 PO Print Date 7/14/2017

Page Number 4 of 4

Order From:

TW METALS PO BOX 933014

ALTANTA, GA 31193-3014

VU-TWM001

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

585 768 5600

**Ship To Contact** Ship To Phone

Ship Via:

YRC COLLECT

Ship Acct:

Buyer

Chantal Lavoie

10127-2607 Net 30

USD

**Customer POID** 

Customer Tax # Terms Currency

**FOB** 

FCA - (Free Carrier)

71401-45

**PROCUREMENT QUALITY CLAUSES**  7/21/2017

No 7/21/2017

\$460.00

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retension of quality documents

Line Total:

\$0.00

\$0.00

Line Total:

\$0.00

PO Total:

\$1,445.00

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr:

4

Change Date:

7/14/2017